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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/653,176	09/03/2003	Byeong Yong Lee	7989.011.00-US	3030	
30827 7	7590 03/29/2006		EXAM	EXAMINER	
MCKENNA LONG & ALDRIDGE LLP			LEUNG, P	LEUNG, PHILIP H	
1900 K STREI WASHINGTO	ET, NW DN, DC 20006		ART UNIT	PAPER NUMBER	
	,		3742		
			DATE MAIL ED: 03/29/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	<u>`</u>
	10/653,176	LEE ET AL.	
Office Action Summary	Examiner	Art Unit	
	Philip H. Leung	3742	
The MAILING DATE of this communicate Period for Reply	ation appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR WHICHEVER IS LONGER, FROM THE MAI - Extensions of time may be available under the provisions of after SIX (6) MONTHS from the mailing date of this communi - If NO period for reply is specified above, the maximum statut - Failure to reply within the set or extended period for reply will Any reply received by the Office later than three months after earned patent term adjustment. See 37 CFR 1.704(b).	LING DATE OF THIS COMMUNI 37 CFR 1.136(a). In no event, however, may a ication. ory period will apply and will expire SIX (6) MOI I, by statute, cause the application to become A	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status			
 1) Responsive to communication(s) filed 2a) This action is FINAL. 3) Since this application is in condition for closed in accordance with the practice)⊠ This action is non-final. r allowance except for formal mat	• •	
Disposition of Claims			
4) ⊠ Claim(s) 1,2,4-7 and 10 is/are pending 4a) Of the above claim(s) is/are 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) 1,2,4-7 and 10 is/are rejected 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction	withdrawn from consideration.		
Application Papers			
9) The specification is objected to by the £ 10) The drawing(s) filed on is/are: a Applicant may not request that any objection Replacement drawing sheet(s) including the 11) The oath or declaration is objected to be	a) accepted or b) objected to on to the drawing(s) be held in abeya he correction is required if the drawing	nce. See 37 CFR 1.85(a). (s) is objected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
	ocuments have been received. Ocuments have been received in A the priority documents have been al Bureau (PCT Rule 17.2(a)).	Application No received in this National Stage	
Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-3) ☑ Information Disclosure Statement(s) (PTO-1449 or PT Paper No(s)/Mail Date 3-9-2006.	0-948) Paper No	Summary (PTO-413) s)/Mail Date nformal Patent Application (PTO-152) 	

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DETAILED ACTION

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 2 and 5-7 and 10 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over Claims 12, 17, 18 and 22 of the copending divisional Application No. 10/981,574. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims as amended in the two applications are both directed to a combined microwave oven with a toaster comprising a heater, input for selecting a toaster function defining the food type and desired toasting level, a memory storing a voltage level as a function of the heater and the toaster function, a temperature sensor for sensing the inside of the toaster, a time counter for measuring the amount of time that has elapsed since the previous toaster operation and a microcomputer for controlling a heating time period by combining a first, a seconds and a third time period (compare, claim 2 with claim 12 of the divisional application). Similarly, the method recited in claims 5-7 and 10 are also directed to a method of operating a combined toaster and a microwave oven having substantially

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the same steps as claimed in claims 17, 18 and 22 of the divisional application. In view of the overlapping subject matter as now claimed in this application and the parent application, the species election requirement mailed 9-10-2004 is hereby withdrawn.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

- 3. Again, it is respectfully reminded that a line of demarcation must be maintained between this application and its divisional application Serial No. 10/981574.
- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art as shown in Figure 2 (APA), in view of Hara (JP 6-141982) (newly cited) or Wanat et al (US 5,802,957) and further in view of Devlin (US 5,126,536) (both previously cited).

The Admitted Prior Art as shown in Figure 2 and discussed in paragraphs [0008]-[0014] shows a microwave oven with a toaster including "a control panel 26 in an upper part of front surface of the cavity door 24, provided with a first selection part 26a for selecting functions of the microwave oven, and a second selection part 26b for selecting a toaster function, and a display part 26c for displaying an operation state for a key input at the first selection part 26a or

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the second selection part 26b". Therefore APA carries out "a function of a signal received from the first or second selection part 26a or 26b of the control panel 26, for setting a toasting time period related to a kind of bread and a level of bread toasting the user selected". APA does not show the use of a temperature sensor for controlling the time of toasting according to the inside temperature of the toaster chamber. Hara shows a toaster having a controller, which controls the toasting time according to the temperature and the elapsed time since the end of previous toasting (see all the Figures and the English abstract). Wanat also shows that it is well known in art of toasters to use a thermal sensor (76) positioned at the toaster chamber 30 to adjust the length of the toasting cycle to compensate the varying temperature in the toasting chamber with the use of a processor unit 70 (see Figures 3 and 4, col. 2, line 54 – col. 3, line 20 and col. 6, line 37 – col. 7, line 20). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify APA to position a thermal sensor in the toaster chamber to monitor the temperature of the toaster chamber to determine the total toasting time period taking the toaster function and the toaster chamber temperature into consideration for better heating control to achieve a better toasted product, in view of the teaching of Hara or Wanat. Consequently, Admitted Prior Art (APA) combined with Hara or Wanat shows every feature as claimed except that it does not explicitly show that the level is a voltage level for the resistance heater of the toaster. Devlin shows that it is well known in the art of electrical toasters to set the degree of toasting by adjusting the voltage level of the resistance heaters (see Figures 1-4, col. 6, line 27 – col. 7, line 2 and col. 9, lines 37-52). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify APA combined with Hara or Wanat to set voltage level of the resistance heaters of the toaster to adjust the toasting level which is a factor of the total

toasting time according to the user's preference, in view of the teaching of Devlin. Therefore, the microprocessor of the toaster is controlled to have a total toasting time according to all these factors: toaster, function, inside temperature and the voltage level according to the combined teachings of all these references. To separately determine different heating periods before combine them into a total resultant time period would have been a mere intermediate step of programming the control method but adds little patentability weight to the claimed combined toaster and microwave oven.

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6. Claims 2, 5-7 and 10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Admitted Prior Art as shown in Figure 2 (APA), in view of Hara (JP 6-141982) or Wanat et al (US 5,802,957) and Devlin (US 5,126,536), as applied to claims and 1 and 4 above, and further in view of Lanno et al (US 5,128,521) (newly cited).

As set forth above, the Admitted Prior Art (APA) combined with Hara or Wanat and with Devlin shows every feature as claimed except for the use of a time counter for measuring the elapsed time period from the end of the last operation of the toaster. Lanno shows a toaster with a microcomputer controller for controlling the degree of toasting according to the color of the toast (toast levels), kind of cooking and a time counter to measure the elapsed time between the end of the previous cycle and the beginning of the new cycle (see the abstract and Figure 1 and the program flowcharts as set forth in Figures 2-12). It would have been obvious to one of ordinary skill in the art at the time of the invention to modify APA as modified above to control the toasting operation according to the kind, the toast voltage level and the time elapsed between toasting operation for better toasting control and result, in view of the teaching of Lanno.

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7. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Philip H Leung whose telephone number is (571) 272-4782.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robin Evans can be reached on (571) 472-4777. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Philip H Leung

Primary Examiner Art Unit 3742

P.Leung/pl 3-24-2006